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IS 8752 (1978): Towing hook for use between trailers of up to 5 tonnes gross mass and transport tractor [TED 22: Transport Tractors and Trailers]



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Indian Standard

SPECIFICATION FOR
TOWING HOOK FOR USE BETWEEN TRAILERS
OF UP TO 5 TONNES GROSS MASS AND
TRANSPORT TRACTOR

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SPECIFICATION FOR TOWING HOOK FOR USE BETWEEN TRAILERS OF UP TO 5 TONNES GROSS MASS AND TRANSPORT TRACTOR

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Indian Standard

SPECIFICATION FOR TOWING HOOK FOR USE BETWEEN TRAILERS OF UP TO 5 TONNES GROSS MASS AND TRANSPORT TRACTOR

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 27 January 1978, after the draft finalized by the Transport Tractors and Trailers Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

0.2 This standard, which relates to vehicles used on public highways, is intended to ensure the maximum degree of compatibility between commercial and government department standards.

0.3 The material requirements are the minimum acceptable and do not preclude the use of other materials provided they are at least equivalent in performance, so that road safety is not impaired.

0.4 This standard should be used in conjunction with 'Indian Standard specification for drawbars for trailers of up to 5 tonnes gross mass' (*under preparation*). The hook has been designed to accommodate a drawbar eye of 51 mm internal diameter and 31 mm stock.

0.5 This standard is based on BS AU 24 : 1964 Specification for towing connections for use between trailers of 2.5 tonnes gross weight and towing vehicle, issued by the British Standards Institution.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the basic dimensions and materials for a towing hook and its mounting, for use in connections between trailers of up to 5 tonnes gross mass and transport tractors.

*Rules for rounding off numerical values (*revised*).

1.2 The gross mass refers to gross laden train mass where more than one trailer is drawn.

2. MATERIAL

2.1 The towing hook shall be either forged or cast.

2.2 The hook shall be forged from Grade C30 of IS : 1875-1971* for steel in normalized condition.

2.3 If cast, the casting shall conform to Grade 2 of IS : 2708-1973†.

3. DIMENSIONS

3.1 The dimensions shall be as shown in Fig. 1.

4. DESIGN

4.1 An efficient safety catch shall be provided as indicated in Fig. 1 to prevent accidental detachment of the drawbar from the hook.

4.2 The hook shall be so designed that a bar of 31 mm diameter, when held vertically, shall pass freely between the inside faces of the hook with the catch held back to clear (see Fig. 1).

5. MOUNTING

5.1 The hook shall be mounted with four bolts, 12 mm diameter at 44.5×86.0 mm centres.

5.1.1 Bolts and nuts shall conform to M12 \times 1.5 P — 8.8 of IS : 1364-1967‡.

5.2 The nuts shall be secured either by peening the end of the bolt or by fitting a positive locking device such as a self locking nut or a slotted nut and split pin.

6. MARKING

6.1 The following wording, in clear lettering 6 mm high, raised or impressed, shall be marked on each towing hook:

‘ TO TOW 5 TONNES GROSS ’ on one side, and on the other side
‘ IS : 8752 ’.

*Specification for carbon steel billets, blooms, slabs and bars for forgings (*third revision*).

†Specification for 1.5 percent manganese steel castings (*first revision*).

‡Specification for precision and semi-precision hexagon bolts, screws, nuts and lock nuts (dia range 6 to 39 mm) (*first revision*).

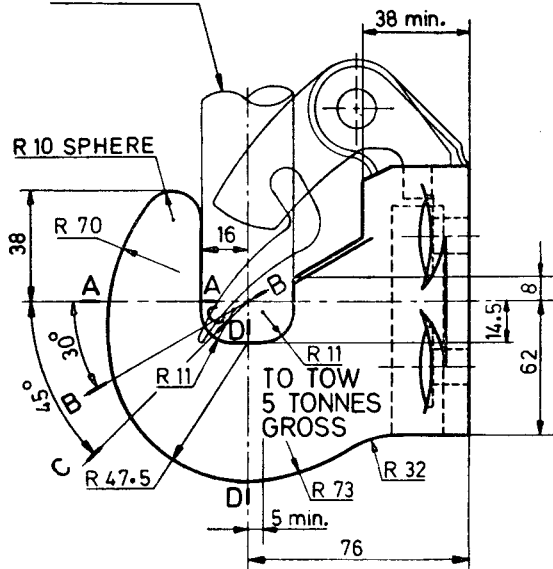
6.2 In addition, the towing hooks shall also be marked, at the appropriate place, the following information:

- a) Name or trade-mark of the manufacturer,
- b) Date or year of manufacture, and
- c) The country of manufacture.

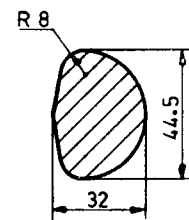
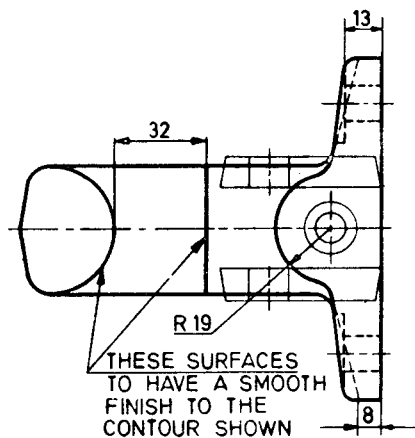
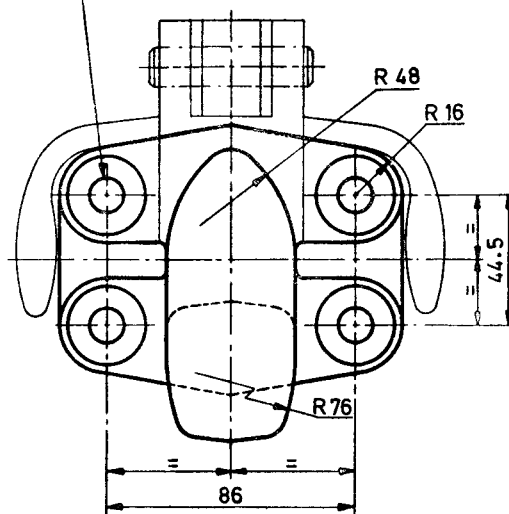
6.2.1 The towing hook may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

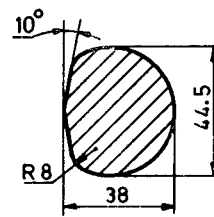
WITH THE CATCH HELD BACK TO
CLEAR A BAR ϕ 31 HELD VERTICALLY
MUST PASS FREELY BETWEEN THE
INSIDE FACES



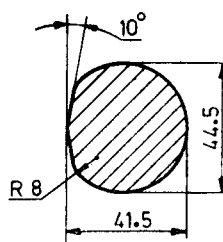
4-HOLES FOR M12 BOLTS SPOTFACE
 ϕ 29 TO 12.5 min. THICKNESS FOR
M12 NUT AND WASHER



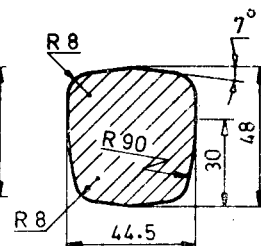
SECTION AA



SECTION BB



SECTION CC



SECTION DD

All dimensions in millimetres.

FIG. 1 TOWING HOOK